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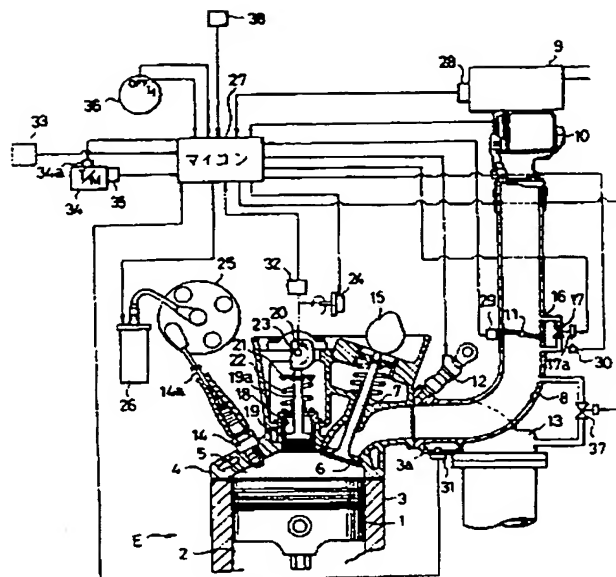
APPLICATION DATE : 27-04-84
 APPLICATION NUMBER : 59085369

APPLICANT : MAZDA MOTOR CORP;

INVENTOR : KAGEYAMA AKIRA;

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TITLE : VARIABLE COMPRESSION-RATIO
 TYPE ENGINE



ABSTRACT : PURPOSE: To eliminate the output shortage by making the mixed gas rich by increase-correcting the fuel injection amount when the compression ratio is varied in deceleration, in an engine in which the compression ratio is varied by varying the capacity of a combustion chamber.

CONSTITUTION: The capacity of a combustion chamber 5, namely the compression ratio is varied by moving a piston 19 vertically by revolving a cam 20 by a motor 24. A compression-ratio position sensor 32 as compression-ratio detecting means is provided. Further, the operation-state detecting means such as air flow meter 10 and crank-angle sensor 33 are provided. Each output of these detecting means is input into a microcomputer 27, and an aimed compression ratio is set into the microcomputer 27 according to the engine operation state, and a motor 24 is controlled according to the deviation of the actual compression ratio from the aimed compression ratio. Further, in order to make the mixed gas rich for a prescribed time when the compression ratio is reduced in deceleration, the opening degree of an air bypass control valve 17 is reduced, and the fuel injection amount supplied from an injection valve 12 is increased.

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